

FIG.1

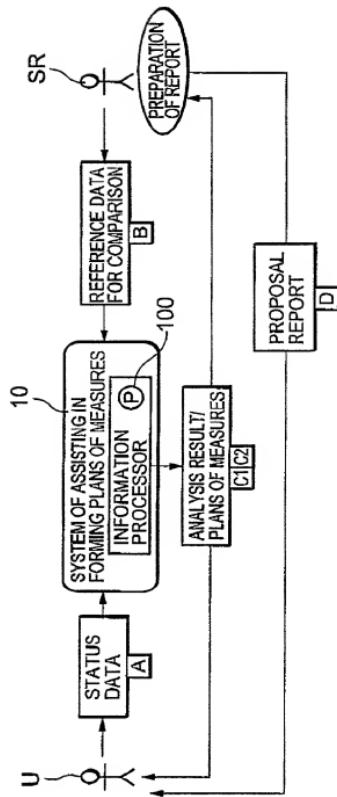


FIG.2A

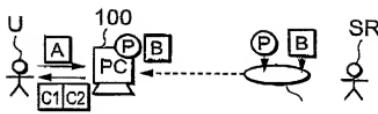


FIG.2B

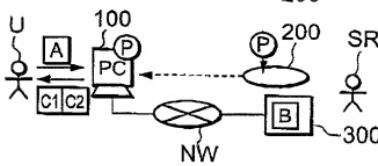


FIG.2C

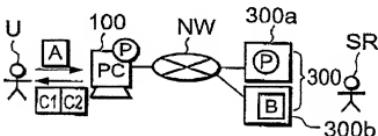


FIG.2D

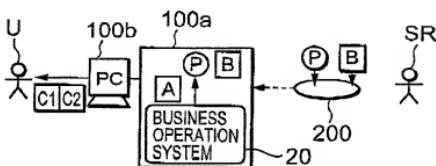


FIG.2E

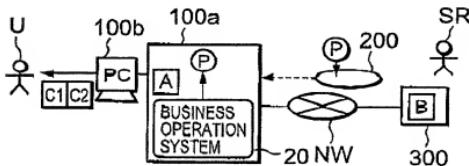


FIG.2F

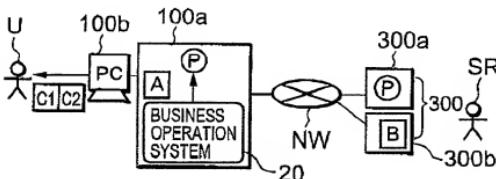


FIG.3

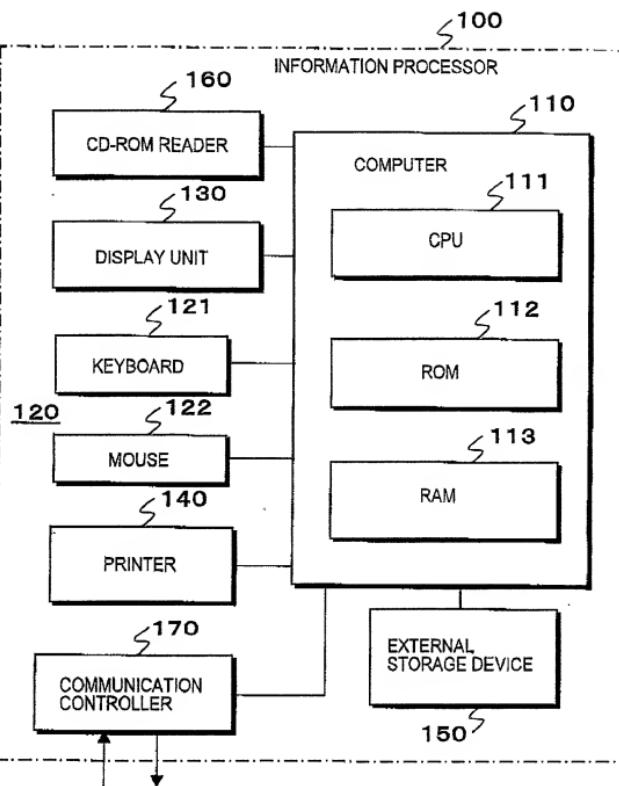
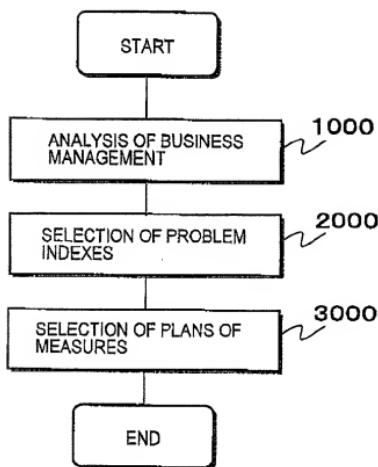


FIG.4



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FIG.5

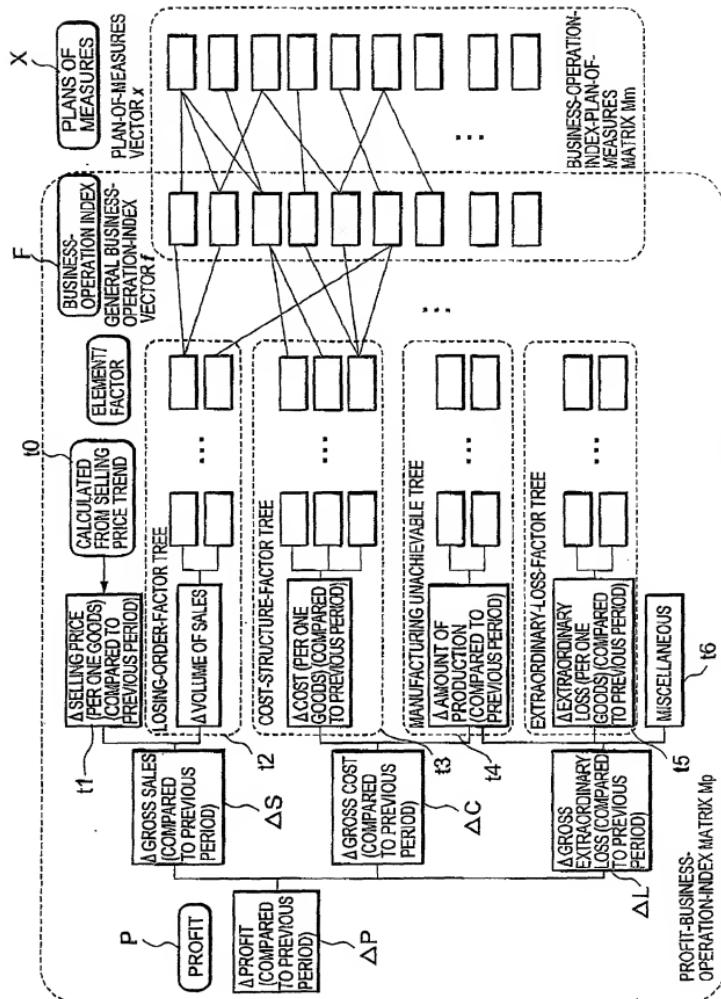


FIG.6

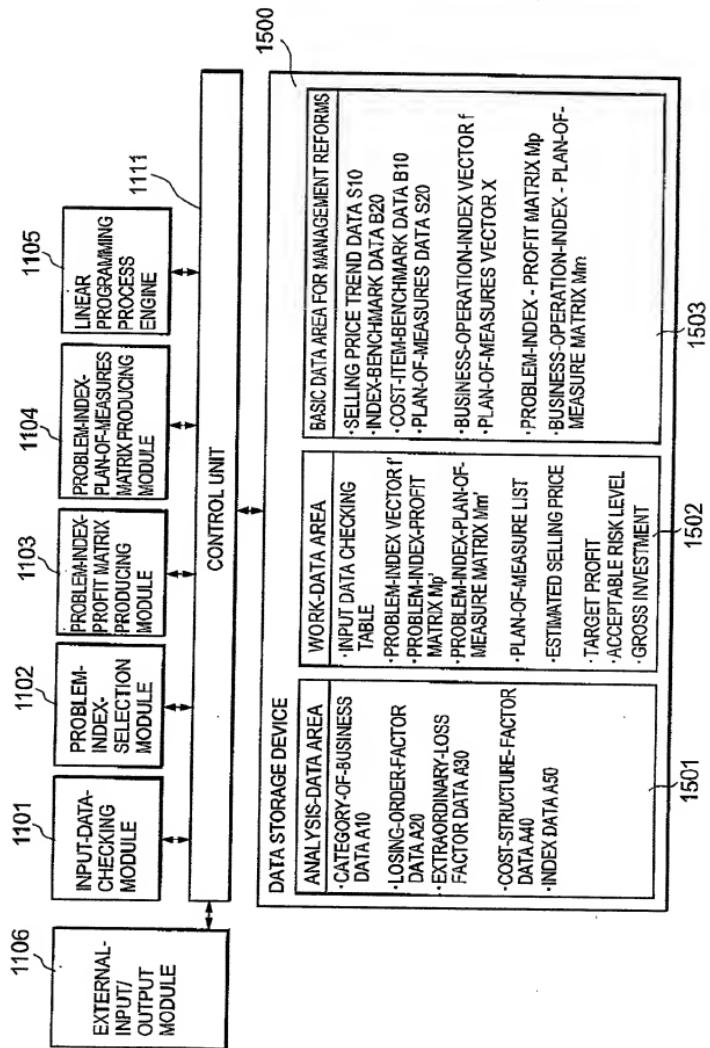


FIG.7

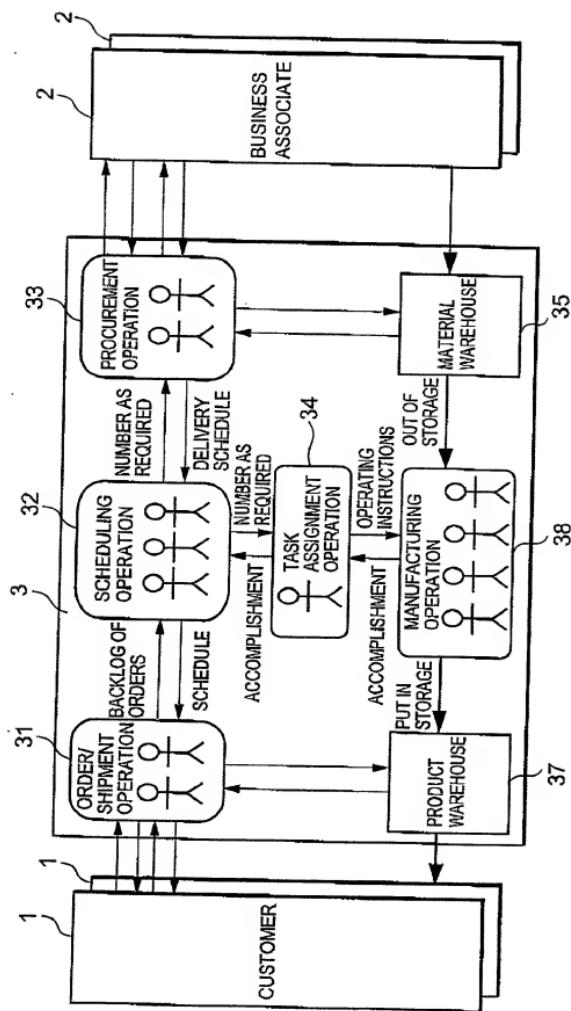


FIG.8

A10

MAJOR DIVISION OF CATEGORY OF BUSINESS	MINOR DIVISION
1 MANUFACTURING INDUSTRIES	HIGH-TECHNOLOGY PRODUCT ASSEMBLING

FIG.9

A20

LOSING-ORDER FACTOR	RELATIONAL EXPRESSION OF LOSING-ORDER FACTOR
1 DELAY OF PRESENTING ESTIMATE	$\Delta V = \beta \cdot \Delta LTq$

FIG.10

A30

EXTRAORDINARY-LOSS FACTOR	RELATIONAL EXPRESSION OF EXTRAORDINARY-LOSS-FACTOR
1 TOO LONG SCHEDULING TOTAL LEAD TIME LT	$\Delta L = \alpha \cdot \Delta LTt$

FIG.11

A40

MAJOR ITEM	MINOR ITEM	RATIO RELATIVE TO SALES (%)
OVERHEAD COST		20
	ORDER/SHIPMENT OPERATION	6
	SCHEDULING OPERATION	8
	PROCUREMENT OPERATION	6
DISPATCH COST		3
	PRODUCT SHIPPING COST	3
DIRECT LABOR COST		12
	TASK ASSIGNMENT OPERATION	2
	MANUFACTURING OPERATION	10
DIRECT MATERIAL COST		60
	MATERIAL A	20
	MATERIAL B	40
TOTAL COST		95
OPERATING PROFIT		5
EXTRAORDINARY LOSS		2
	DISPOSE OF UNDERPERFORMING ASSETS	2
PROFIT OF CURRENT PERIOD		3

FIG.12

A50

MAJOR ITEM	MINOR ITEM	INDEX VALUE
INDIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	ORDER/SHIPMENT OPERATION	100
	SCHEDULING OPERATION	20
	PROCUREMENT OPERATION	40
DIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	TASK ASSIGNMENT OPERATION	100
	MANUFACTURING OPERATION	10
INDIRECT LABOR LEAD TIME (NUMBER OF DAY/TIME)		
	ORDER/SHIPMENT OPERATION	5
	SCHEDULING OPERATION	20
	PROCUREMENT OPERATION	10

FIG.13

S10

	RELATIVE SELLING PRICE (BASED ON CURRENT PERIOD BEING TAKEN AS UNITY)
SECOND PREVIOUS PERIOD	1.25
PREVIOUS PERIOD	1.05
CURRENT PERIOD	1

FIG.14

B10

MAJOR ITEM	MINOR ITEM	RATIO RELATIVE TO SALES (%)
OVERHEAD COST		5
	ORDER/SHIPMENT OPERATION	1
	SCHEDULING OPERATION	2
	PROCUREMENT OPERATION	1
DISPATCH COST		3
	PRODUCT SHIPPING COST	3
DIRECT LABOR COST		7
	TASK ASSIGNMENT OPERATION	?
	MANUFACTURING OPERATION	?
DIRECT MATERIAL COST		60
	MATERIAL A	20
	MATERIAL B	40
TOTAL COST		85
OPERATING PROFIT		15

FIG.15

B20

MAJOR ITEM	MINOR ITEM	INDEX VALUE
INDIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	ORDER/SHIPMENT OPERATION	500
	SCHEDULING OPERATION	100
	PROCUREMENT OPERATION	130
DIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	TASK ASSIGNMENT OPERATION	500
	MANUFACTURING OPERATION	10
INDIRECT LABOR LEAD TIME (NUMBER OF DAY/TIME)		
	ORDER/SHIPMENT OPERATION	1
	SCHEDULING OPERATION	5
	PROCUREMENT OPERATION	5

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FIG.16



The table has four columns: PLAN OF MEASURES, INVESTMENT COST (M¥), and RISK LEVEL. The first column is labeled S21, the second S20, the third S22, and the fourth S23.

	PLAN OF MEASURES	INVESTMENT COST (M¥)	RISK LEVEL
1	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 1	5	1
2	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 2	7	1
3	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 3	3	2
4	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 1	10	1
5	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 2	10	1
6	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 3	10	2
7	INTRODUCTION OF PROCUREMENT MANAGEMENT SUBSYSTEM 1	3	1
8	INTRODUCTION OF PROCUREMENT MANAGEMENT SUBSYSTEM 2	10	2
9	INTRODUCTION OF PLANT 1 FOR PRODUCTION	10	1
10	INTRODUCTION OF PLANT 2 FOR PRODUCTION	500	3

FIG. 17

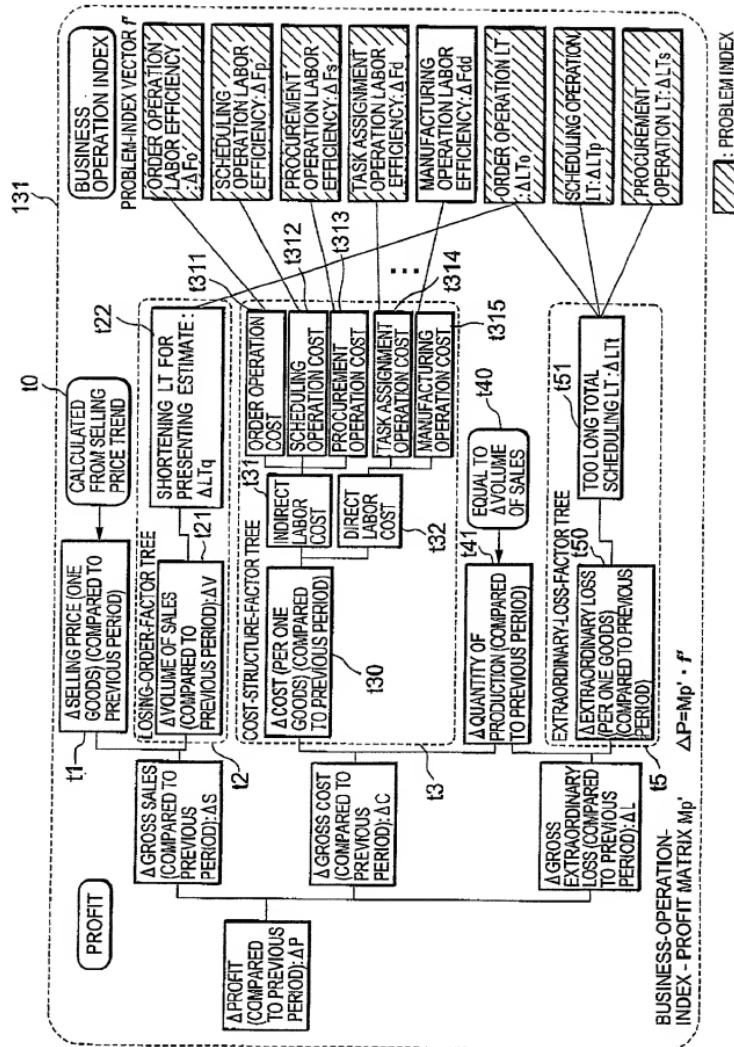


FIG.18

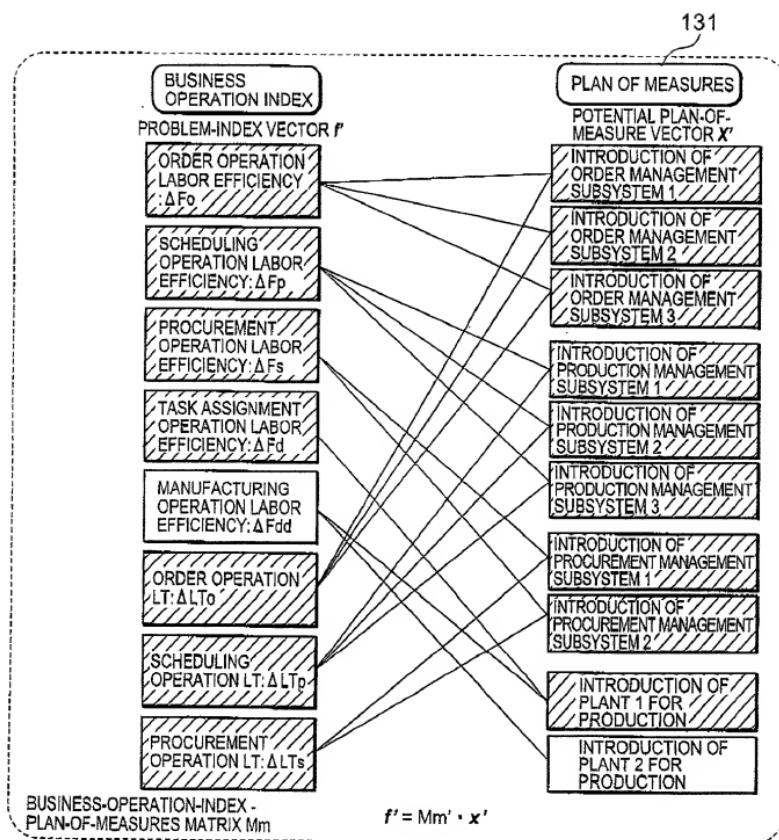


FIG. 19

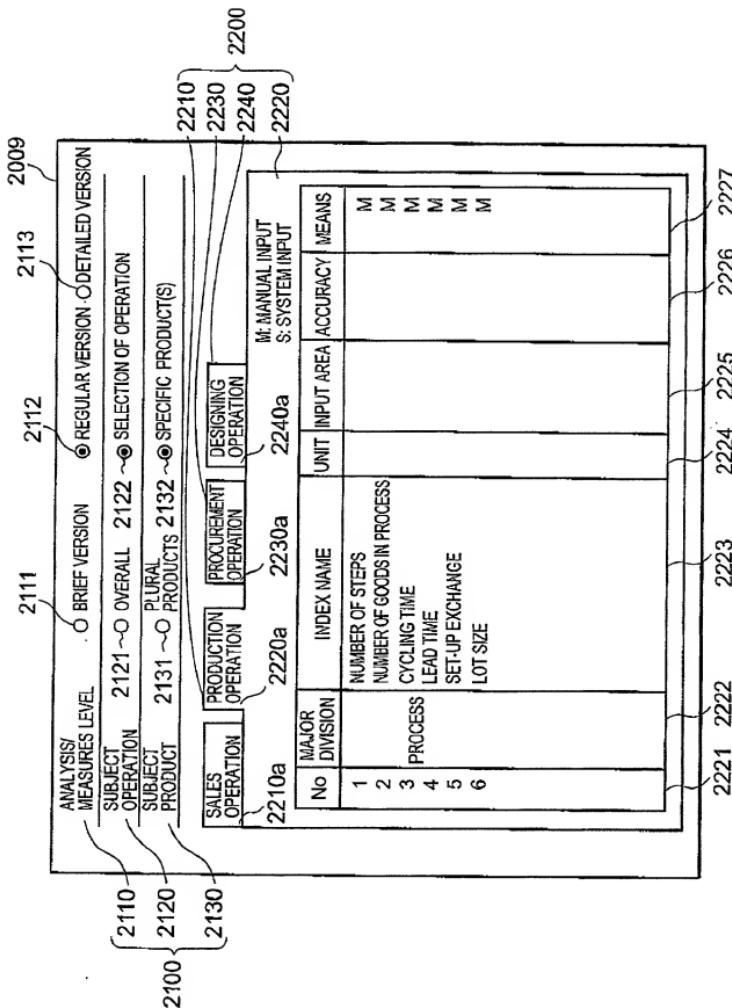


FIG.20

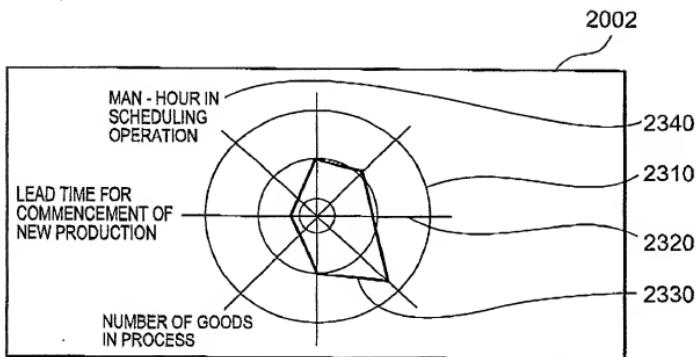


FIG.21

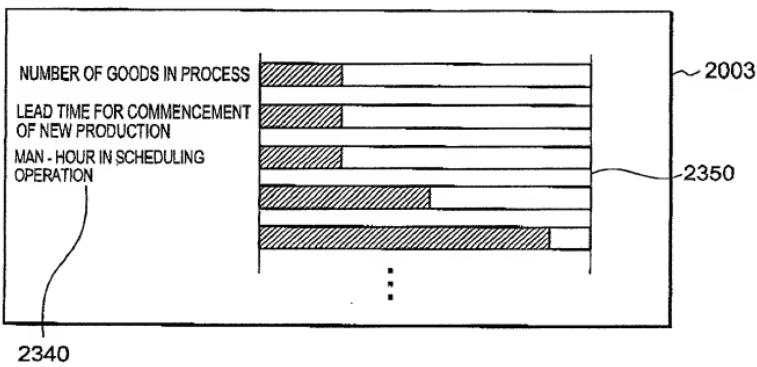


FIG.22

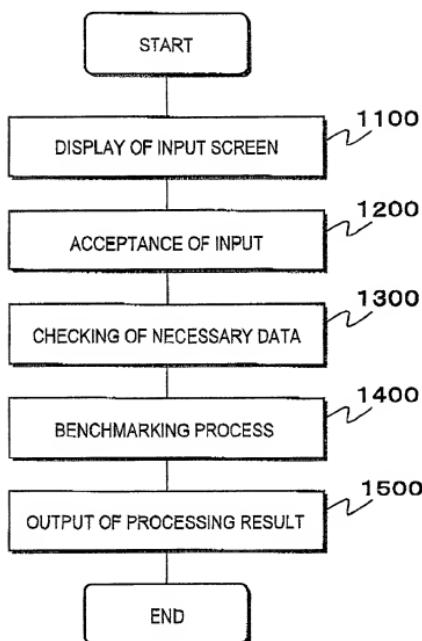


FIG.23

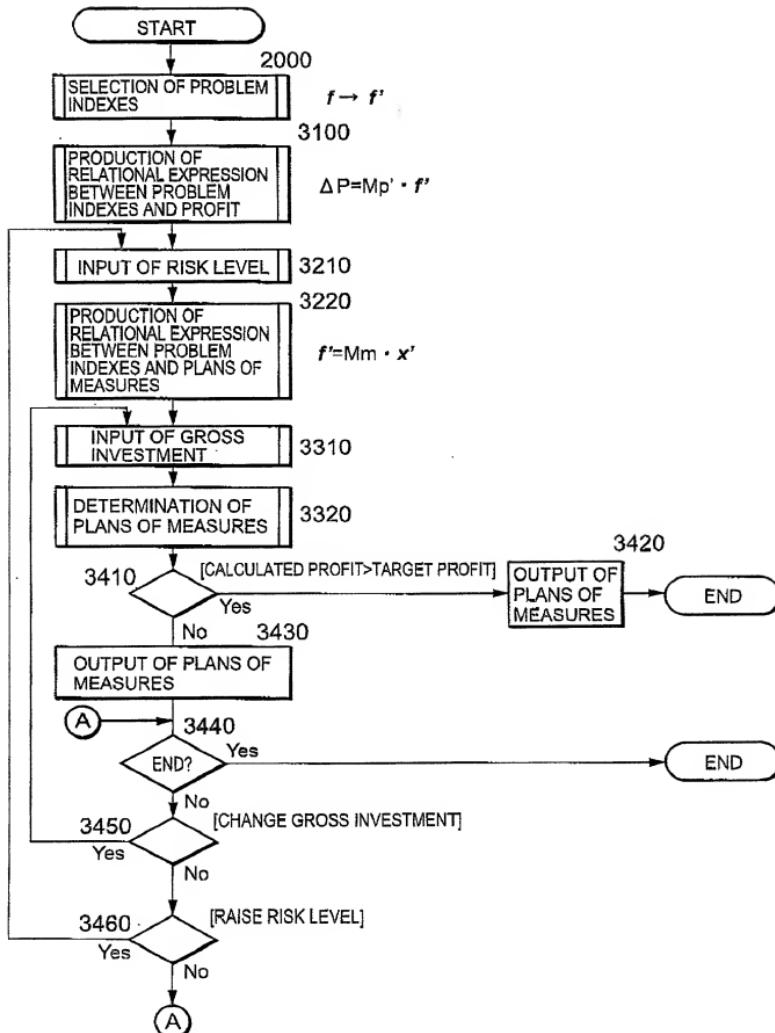


FIG.24

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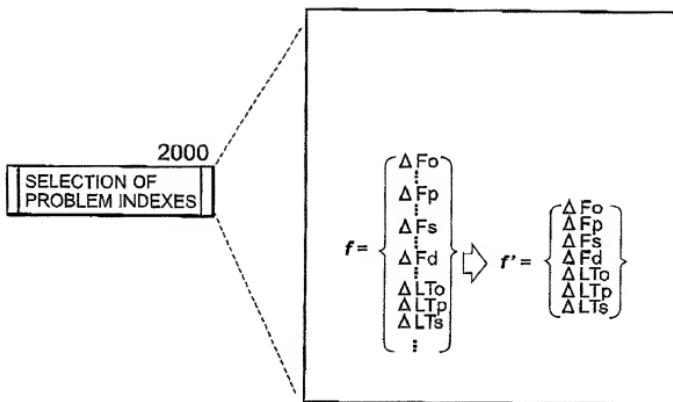
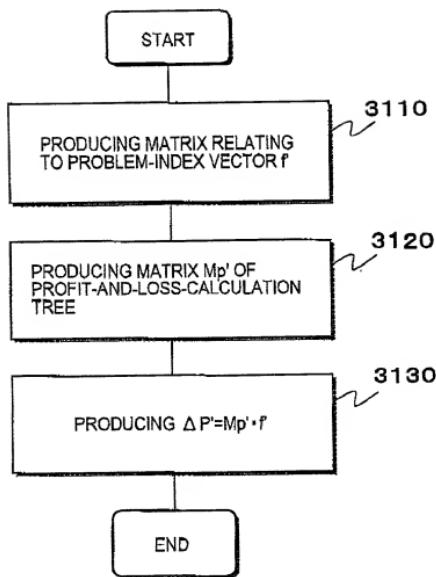


FIG.25



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FIG. 26A

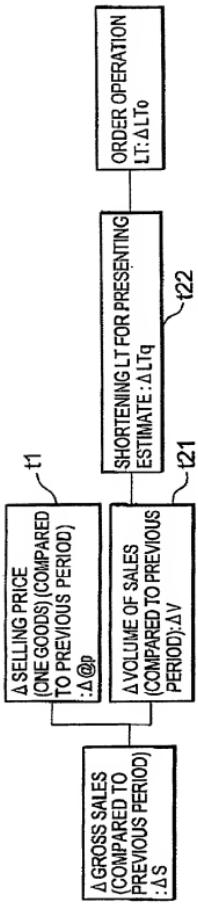


FIG. 26B

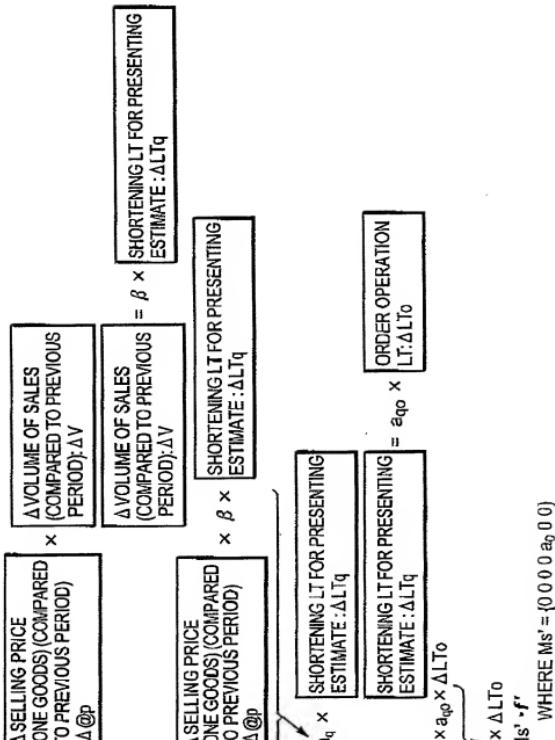
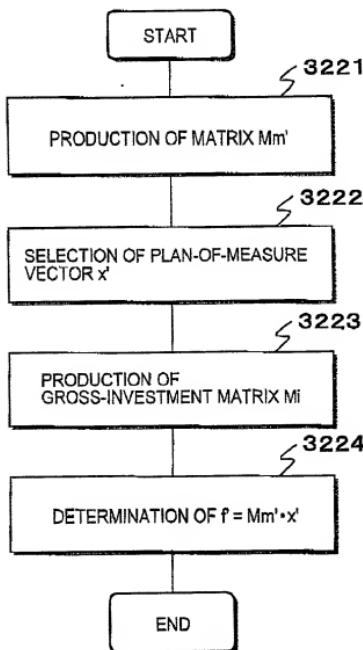


FIG.27



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FIG.28

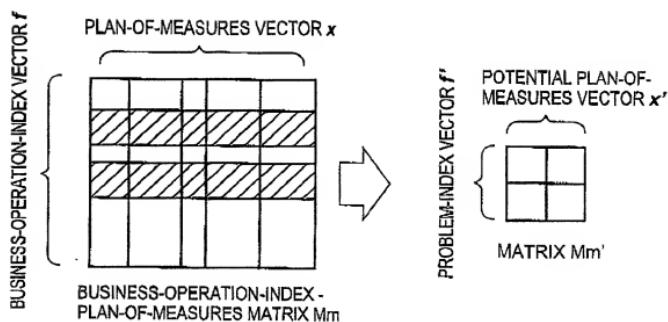


FIG.29

	1	2	3	4	5	6	7	8	9
PLAN OF MEASURES	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM1	INTRODUCTION OF ORDER OF ORDER MANAGEMENT SUBSYSTEM2	INTRODUCTION OF ORDER OF ORDER MANAGEMENT SUBSYSTEM3	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM1	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM2	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM3	INTRODUCTION OF PROCUREMENT MANAGEMENT SUBSYSTEM1	INTRODUCTION OF PROCUREMENT MANAGEMENT SUBSYSTEM2	INTRODUCTION OF PROCUREMENT MANAGEMENT SUBSYSTEM3
INVESTMENT COST (M€)	5	7	3	10	10	10	3	10	10
RISK LEVEL	1	1	2	1	1	2	1	1	1
PROCESSING VARIABLE	x_1 {0, 1}	x_2 {0, 1}	x_3 {0, 1}	x_4 {0, 1}	x_5 {0, 1}	x_6 {0, 1}	x_7 {0, 1}	x_8 {0, 1}	x_9 {0, 1}
1 ΔF_O	m11	m12	m13						
2 ΔF_p				m24	m25	m26			
3 ΔF_S							m37	m38	
4 ΔF_d									m49
5 $\Delta L T_O$	m51	m52	m53						
6 $\Delta L T_p$				m64	m65	m66			
7 $\Delta L T_S$							m77	m78	

FIG.30

